

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383056

Luminaire Tested: **GLEON-SA4A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14213.5 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

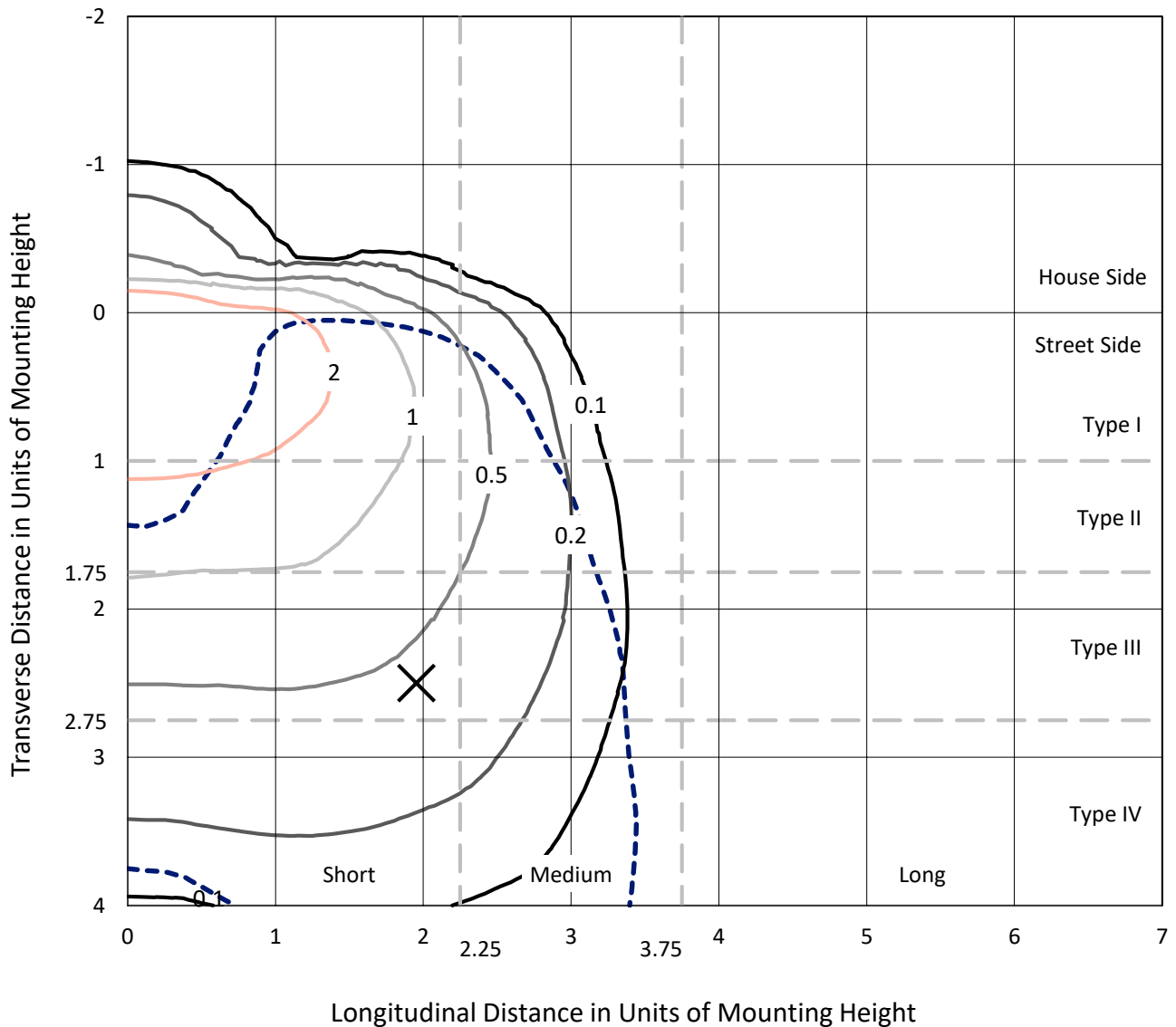
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

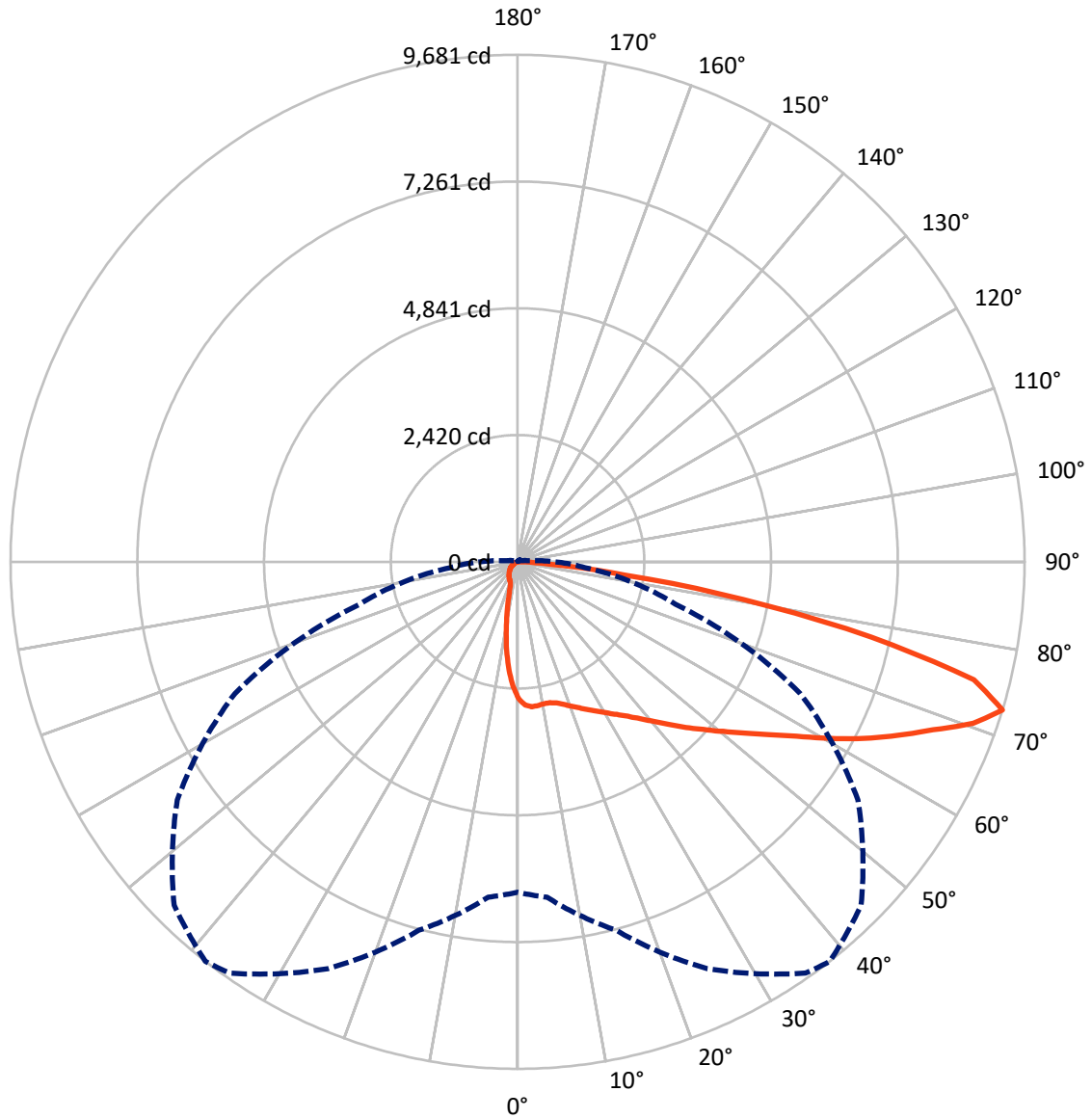
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.1	0.0	1196.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13017.4	0.0	13017.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	14213.5	0.0	14213.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.6
10°-20°	544.7	3.8
20°-30°	866.3	6.1
30°-40°	1302.4	9.2
40°-50°	1986.9	14.0
50°-60°	2808.1	19.8
60°-70°	3522.3	24.8
70°-80°	2633.7	18.5
80°-90°	326.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14213.5	100.0
0°-180°	14213.5	100.0

Coefficient of Utilization



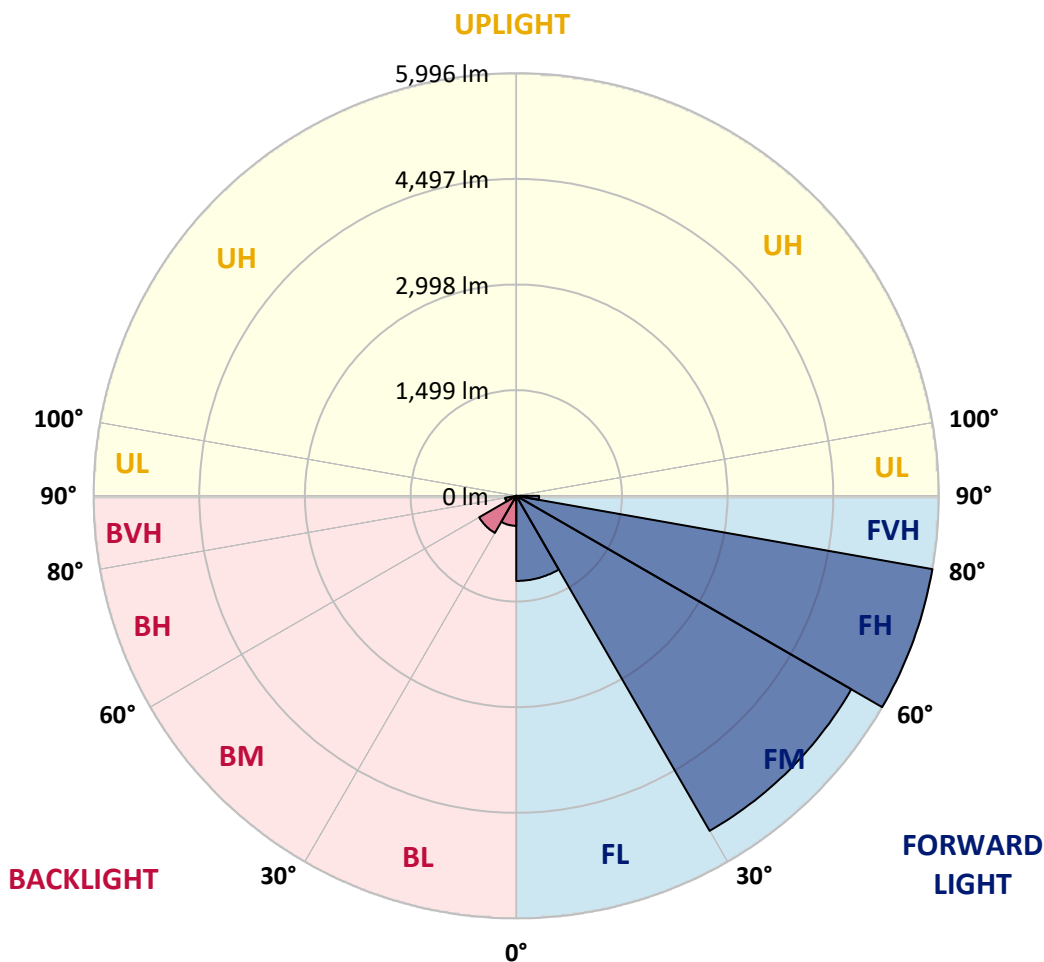
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.8	8.5			
FM (30°-60°)	5489.9	38.6			
FH (60°-80°)	5996.2	42.2			G3/7500
FVH (80°-90°)	323.5	2.3			G3/500
BL (0°-30°)	425.9	3.0	B1/500		
BM (30°-60°)	607.4	4.3	B1/1000		
BH (60°-80°)	159.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8
2.5°	2774.4	2775.0	2768.5	2757.8	2744.2	2737.2	2725.4	2706.5	2686.4	2650.4	2611.5
5°	2831.1	2831.1	2822.8	2808.6	2786.8	2780.3	2757.8	2727.8	2686.4	2628.0	2562.5
7.5°	2825.2	2826.3	2815.1	2800.3	2778.5	2772.7	2745.5	2711.8	2660.5	2589.6	2505.8
10°	2794.5	2797.4	2788.6	2781.5	2761.4	2754.9	2729.5	2695.9	2644.5	2568.9	2472.7
12.5°	2763.2	2766.1	2769.1	2775.5	2763.2	2760.8	2740.7	2712.4	2663.4	2584.9	2476.3
15°	2743.1	2749.0	2770.2	2795.7	2798.6	2796.2	2783.3	2756.6	2707.1	2625.7	2501.7
17.5°	2743.1	2752.5	2796.8	2845.2	2862.4	2864.1	2852.9	2815.7	2756.6	2669.3	2525.2
20°	2766.1	2779.1	2848.2	2916.7	2945.0	2945.0	2923.1	2871.2	2802.1	2708.8	2541.3
22.5°	2825.2	2842.2	2929.1	3008.2	3038.2	3031.7	3002.3	2926.6	2849.3	2753.7	2561.3
25°	2941.5	2954.4	3044.8	3124.4	3142.8	3128.0	3090.8	2994.0	2909.6	2814.5	2597.9
27.5°	3091.3	3093.1	3186.5	3253.7	3242.5	3232.5	3185.8	3078.4	2996.3	2901.3	2661.1
30°	3256.0	3256.0	3338.1	3389.4	3355.2	3347.0	3300.4	3180.5	3107.3	3019.3	2750.8
32.5°	3415.4	3422.5	3489.2	3521.7	3483.3	3475.0	3429.6	3309.8	3254.9	3199.4	2890.7
35°	3569.5	3574.8	3638.0	3655.7	3619.1	3621.5	3589.0	3487.4	3466.8	3459.7	3101.4
37.5°	3718.8	3720.0	3784.4	3795.6	3777.3	3797.4	3800.3	3710.6	3748.9	3806.2	3398.3
40°	3855.2	3856.4	3920.1	3949.1	3980.3	4006.3	4029.3	3981.5	4108.5	4241.2	3751.9
42.5°	3964.4	3976.8	4057.7	4112.6	4195.2	4244.8	4307.4	4305.1	4536.5	4735.9	4179.3
45°	4060.6	4081.9	4194.7	4290.9	4432.5	4511.6	4609.6	4686.3	5018.1	5286.7	4612.0
47.5°	4187.6	4207.6	4336.3	4493.9	4682.8	4786.7	4949.0	5114.9	5547.6	5827.4	5034.6
50°	4366.4	4357.6	4484.5	4710.6	4953.1	5089.5	5320.9	5569.4	6072.9	6298.5	5283.2
52.5°	4557.0	4553.5	4647.4	4946.1	5271.9	5431.3	5737.1	6039.3	6575.3	6623.1	5397.1
55°	4793.2	4767.8	4846.9	5214.7	5650.3	5821.5	6181.6	6504.4	6975.5	6806.1	5454.3
57.5°	5040.5	4998.6	5074.1	5513.9	6077.0	6279.6	6673.9	6957.8	7241.8	6931.3	5453.7
60°	5296.1	5246.6	5336.3	5888.2	6607.2	6841.5	7207.5	7264.2	7490.3	6994.4	5413.6
62.5°	5509.8	5480.3	5613.7	6288.4	7199.3	7429.5	7610.7	7542.8	7699.8	7043.4	5319.7
65°	5735.9	5737.7	5953.1	6755.3	7828.4	7983.7	7999.1	7904.1	7875.1	7033.4	5002.1
67.5°	6041.6	6070.0	6429.4	7389.3	8440.7	8560.5	8559.2	8295.4	8003.2	6634.3	4298.0
70°	6365.2	6431.9	6978.5	8114.8	9108.9	9230.4	9167.8	8544.5	7535.7	5364.6	3041.8
72.5°	6310.9	6426.6	7283.7	8572.3	9588.8	9681.4	9274.7	7932.4	5956.0	3118.0	1295.1
75°	4868.7	5002.8	6678.6	8118.9	9085.2	9002.0	7969.0	6172.7	3254.9	870.1	291.6
77.5°	2571.9	2643.4	4411.9	6185.1	7084.1	6910.0	5613.7	3424.3	992.3	215.5	131.1
80°	1347.0	1363.6	1922.6	3509.3	4372.3	4373.5	3326.9	1504.1	409.0	110.4	87.9
82.5°	721.3	735.5	1015.9	1621.5	2291.0	2076.7	1273.9	827.6	237.9	62.6	84.4
85°	173.5	176.5	576.2	740.9	900.8	643.4	378.4	694.7	64.4	36.6	68.5
87.5°	66.7	67.9	213.7	320.5	229.6	148.8	177.1	259.2	8.3	14.2	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8
2.5°	2587.8	2572.5	2534.7	2487.0	2444.4	2413.7	2367.7	2337.5	2317.5	2316.9	2309.2
5°	2522.4	2491.1	2409.5	2312.8	2224.8	2145.7	2052.5	1978.7	1923.7	1914.9	1896.1
7.5°	2452.1	2400.7	2275.6	2124.5	1976.9	1827.0	1652.8	1544.8	1452.1	1407.8	1403.1
10°	2409.0	2337.0	2159.3	1940.9	1709.5	1465.7	1237.8	1080.2	966.3	933.9	909.7
12.5°	2400.1	2305.1	2069.6	1768.5	1437.9	1115.6	863.6	696.0	605.0	576.2	568.4
15°	2409.0	2290.3	1994.0	1597.9	1162.9	791.6	579.7	482.3	448.1	439.8	439.2
17.5°	2414.3	2272.6	1908.5	1408.4	896.1	565.5	443.9	415.6	410.3	409.7	410.8
20°	2413.7	2245.5	1806.3	1197.1	666.4	444.5	401.4	395.5	394.3	394.9	394.3
22.5°	2409.5	2213.6	1694.1	979.3	503.5	397.3	383.1	379.6	379.0	379.0	379.0
25°	2417.3	2188.2	1570.8	770.9	415.0	375.4	366.6	363.6	363.0	363.0	361.8
27.5°	2445.0	2174.0	1435.6	593.2	374.9	355.9	348.9	348.3	346.5	345.9	347.1
30°	2489.8	2174.0	1287.4	461.6	350.6	335.9	330.6	329.4	328.8	328.2	328.8
32.5°	2568.9	2190.6	1125.7	383.7	327.6	313.5	309.9	311.7	309.9	309.9	309.9
35°	2711.8	2240.2	956.2	334.7	303.4	291.6	288.0	290.5	289.2	289.2	288.7
37.5°	2920.2	2332.2	785.7	305.2	282.2	269.8	265.0	268.6	267.4	267.4	266.8
40°	3174.0	2466.3	623.4	282.7	261.5	248.5	244.3	246.1	243.2	243.2	244.3
42.5°	3487.4	2636.3	481.7	260.9	240.8	228.4	226.1	224.3	219.0	216.0	216.7
45°	3835.7	2813.4	375.4	239.7	221.3	211.4	207.8	203.1	194.2	188.3	188.9
47.5°	4146.8	2949.7	305.2	219.0	203.6	196.0	190.7	181.8	168.8	161.7	162.4
50°	4310.4	2970.3	259.7	198.3	187.1	179.4	171.8	158.2	142.8	135.2	134.6
52.5°	4352.3	2873.5	226.1	179.4	170.6	161.7	151.7	133.4	116.3	108.1	106.8
55°	4367.6	2726.0	196.0	161.7	152.9	142.8	129.9	109.2	93.2	85.0	84.4
57.5°	4316.8	2505.8	172.3	145.8	135.2	122.8	106.8	87.4	72.0	65.5	65.5
60°	4204.1	2207.7	154.1	128.6	116.9	102.7	86.2	67.9	53.8	48.4	48.4
62.5°	3979.2	1821.6	136.9	110.9	99.8	85.0	69.7	51.3	37.8	34.8	35.4
65°	3554.8	1381.9	119.8	95.0	85.0	70.2	54.3	36.6	25.3	25.3	26.5
67.5°	2899.0	959.8	102.1	80.9	73.2	57.3	41.4	25.3	17.7	20.0	22.5
70°	1919.1	538.3	87.4	66.7	62.6	45.5	30.7	17.1	14.2	18.9	23.0
72.5°	724.3	209.6	73.2	53.8	54.3	34.8	21.8	12.9	12.9	20.7	27.1
75°	201.9	102.7	52.5	39.6	42.5	25.3	15.9	11.2	12.4	23.6	31.9
77.5°	118.7	75.5	34.3	23.0	28.9	17.7	10.6	8.8	10.6	20.0	30.7
80°	95.7	40.1	20.0	11.8	15.9	10.1	7.1	5.3	3.0	7.6	15.9
82.5°	95.7	24.2	9.4	8.3	8.3	5.3	3.5	2.3	0.6	0.0	4.1
85°	64.4	10.1	5.9	5.3	4.1	1.8	1.2	0.6	0.0	0.0	0.0
87.5°	10.6	4.1	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)